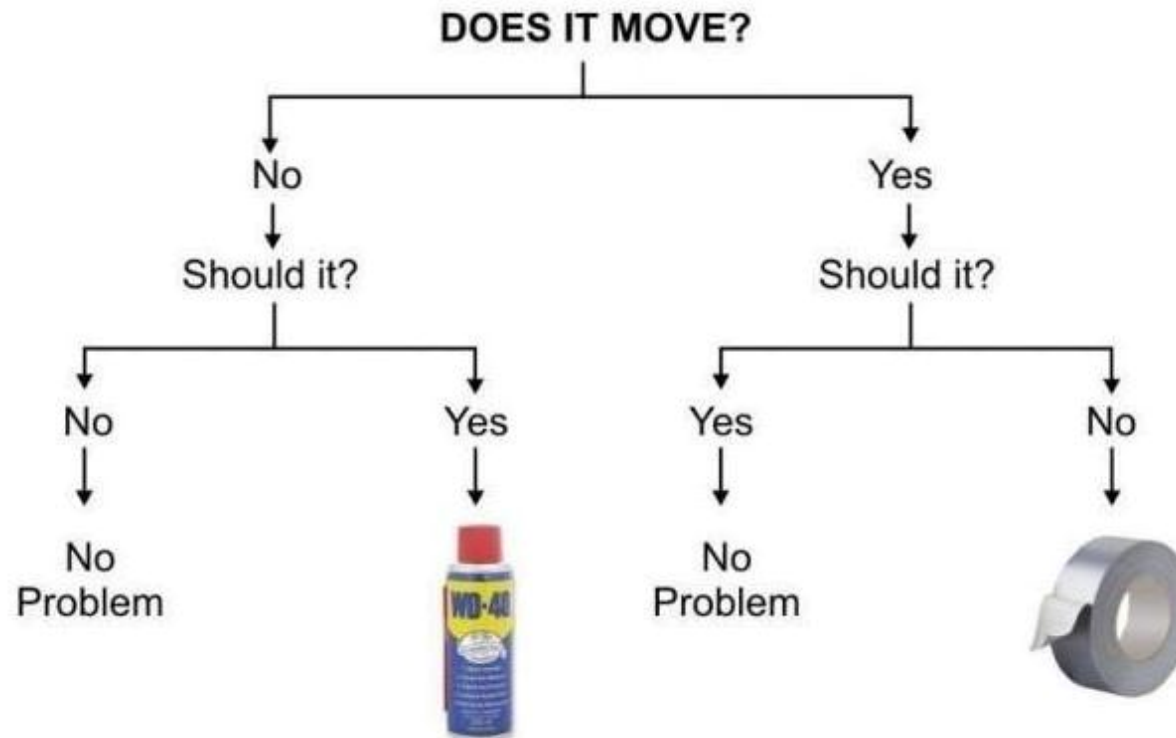


# SD244 Over Palmer Creek

## Engineering Flowchart



Mark Malone, PE

SD DOT

March 9, 2020



# Project Limits



# Why are we here?

- Bridge nearing end of service life
  - Built in 1966



# Purpose of this meeting

- To involve public in the design process
- To exchange ideas – listen and discuss concerns
- Gather Input and Comments



# Traffic

- **2018 Average Daily Traffic (ADT) = 1576**
  - 20 year ADT = 2287
  - 2.3% Trucks



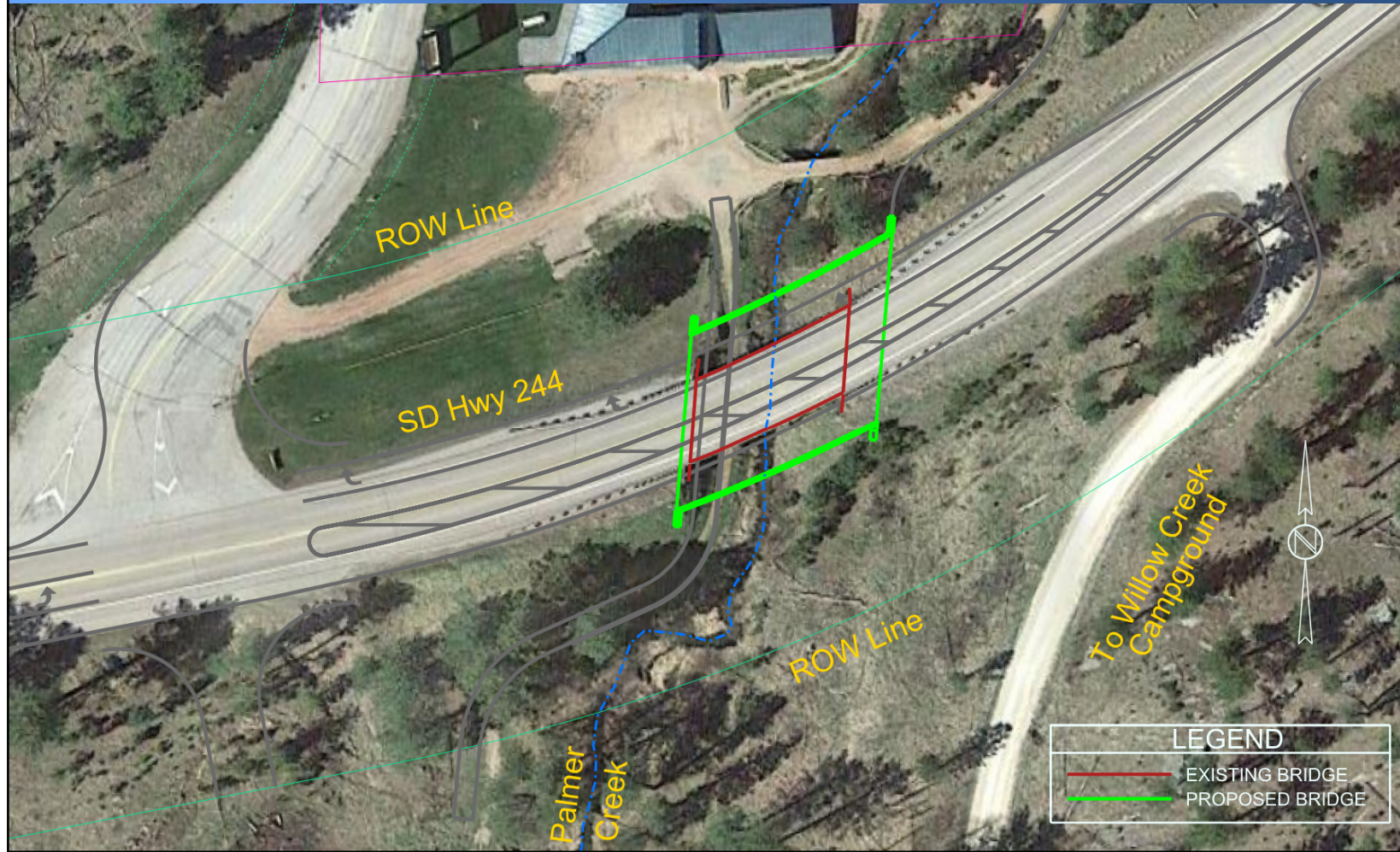
# Crash History

- **5 Year Period from 2014 - 2018**
  - 3 Reported Crashes
    - 2 Animal Hit
    - 1 Rear End
  - 0 Fatalities
- **Rural Minor Arterial**
  - Reported Crash Rate = 1.04
  - Statewide Weighted Crash Rate = 1.69  
(crashes per million vehicle miles of travel)



# Proposed Improvements

- Replace bridge over Palmer Creek



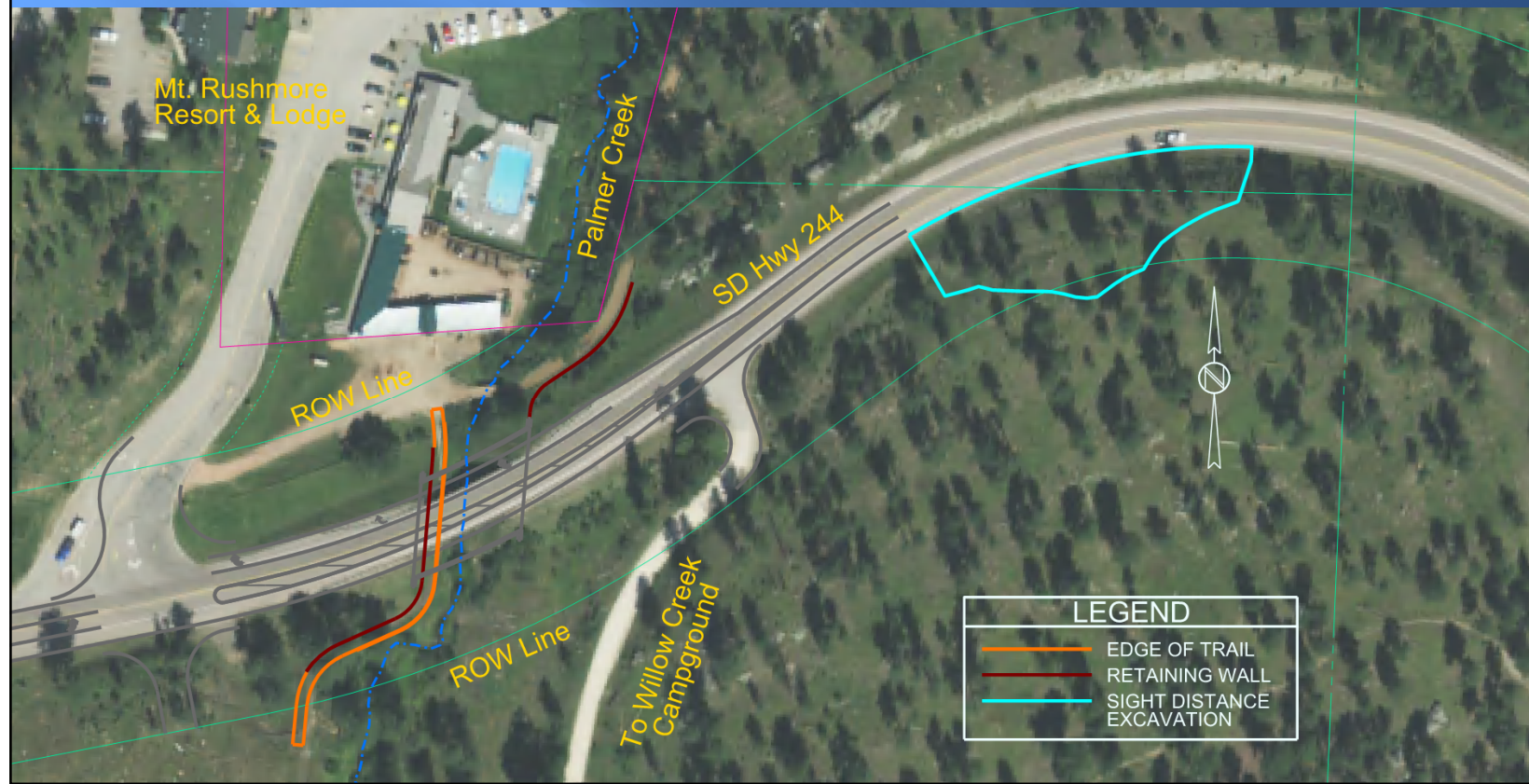
# Proposed Improvements

- Add left & right turn lanes at Mt. Rushmore Resort & Lodge



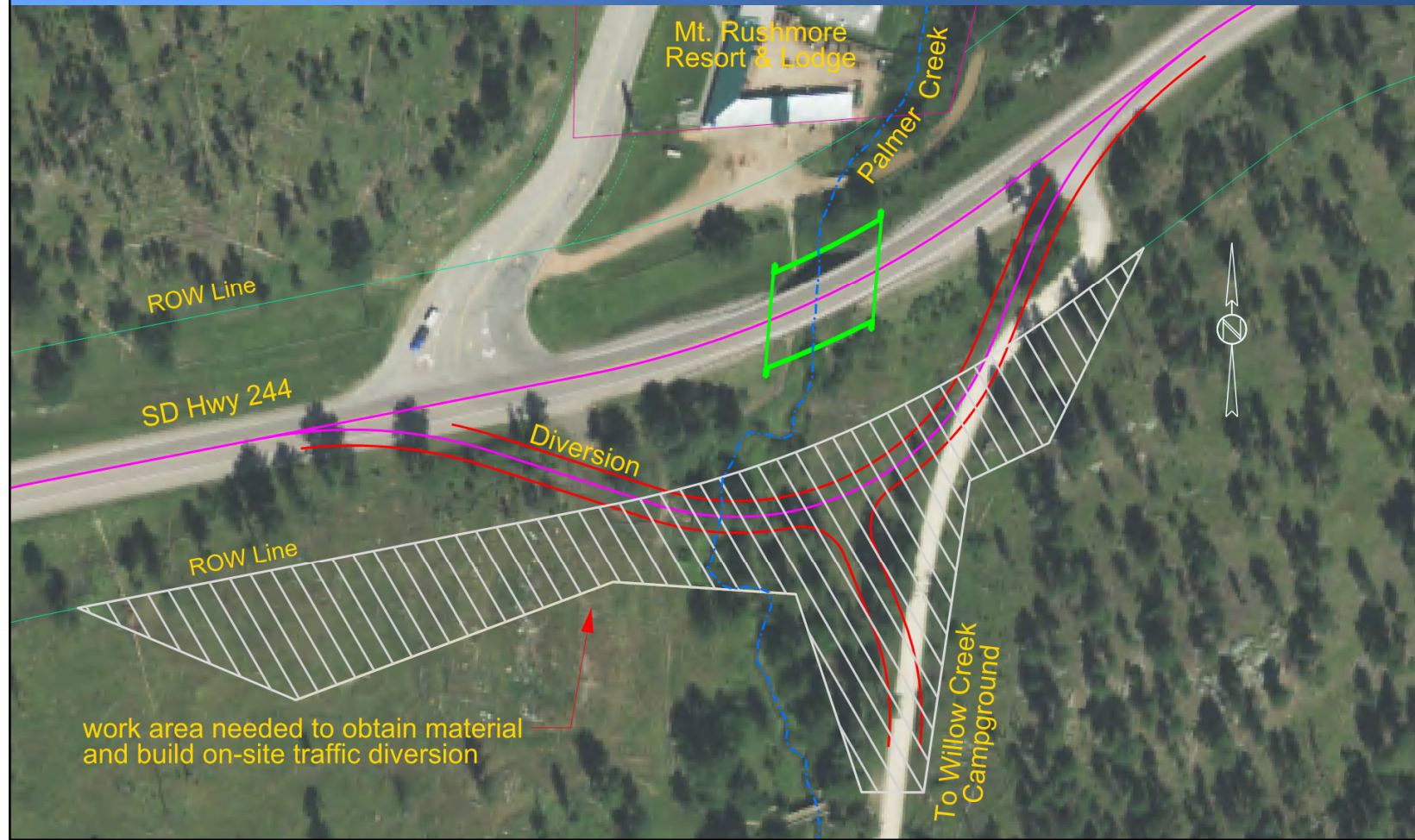
# Proposed Improvements

- Increase sight distance east of bridge
- Construct retaining walls
- Reconstruct section of trail



# Traffic During Construction

## ➤ Option 1: On-Site Traffic Diversion



# Traffic During Construction

- **Option 2: Road Closure – Preferred Alternative**
  - Construction through winter
  - Road closed Oct. 1, 2022 to Apr. 30, 2023
  
- **Why is road closure preferred?**
  - An on-site traffic diversion would result in:
    - greater environmental impacts
    - longer construction
    - higher project cost
    - additional maintenance needs



# Traffic During Construction

- **Option 2: Road Closure – Preferred Alternative**
  - Construction through winter
  - Road closed Oct. 1, 2022 to Apr. 30, 2023
  
- **Other road closure details:**
  - SD244 only closed at the bridge replacement
  - Access east of the bridge maintained from the east
  - Access west of the bridge maintained from the west
  - SDDOT will conduct winter maintenance on SD244 east and west of the project through construction



# Right of Way (ROW)

- Existing Width - 200 feet
- Temporary Easements as needed for construction
- No additional ROW proposed



# Environmental, Social & Economic Concerns

The National Environmental Policy Act of 1969 (NEPA) requires that federally funded projects be reviewed to determine the social, economic, and environmental consequences of the action. Public involvement is beneficial to the implementation of a project's NEPA process. This project is being developed in accordance with applicable State & Federal environmental regulations. Your input on the following will aid in the project's development and NEPA review.

## Section 4(f) Property

The project was reviewed to determine potential impacts to Section 4(f) properties, i.e. publicly owned parks, recreational areas, wildlife & waterfowl refuges, or public & private historical sites. The project lies within the Black Hills National Forest. A recreational horse trail begins at the KOA campground north of the highway, extends under the existing bridge, then continues south. The horse trail will be temporarily closed during project construction; and will reopen after construction.

## Section 106

Section 106 of the National Historic Preservation Act requires Federal actions to take into account the effects of project undertakings on historic properties.

See Handout



# Environmental, Social & Economic Concerns

## Contaminated Materials

No contaminated materials have been identified along the project, to date. If you have information on contaminated materials, or underground/above ground storage tanks that could be encountered during construction, please let us know.

## Threatened & Endangered Species

According to the U.S. Fish & Wildlife Service, the following species are known to occur in Pennington County:

- Birds: Whooping Crane, Red Knot, Least Tern
- Mammals: Northern Long-Eared Bat

**Awaiting a final determination, but at this time no impacts are anticipated to these species by the project.**

See Handout



# Environmental, Social & Economic Concerns

## Wetlands

Federal regulations require that unavoidable wetland impacts caused by highway construction be mitigated. If you are interested in creating or restoring wetlands on your property, please complete the Wetland Mitigation Registry Form in the handout.

**Awaiting final impact analysis, but no significant impacts are anticipated to wetlands along the project. SDDOT Environmental Office is coordinating with U.S. Army Corps of Engineers.**

See Handout



# Estimated Cost

\$2.4 Million





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**Landowner Meetings**

**Already held**

**Final Design**

**Spring 2020**

**ROW Acquisition Process**

**Spring 2021**

**Construction**

**Fall 2022 – Spring 2023**

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**Dependent on Federal Funding**



## ➤ **Written Comments Due Monday, March 23**

- Mail - 700 E Broadway Ave, Pierre, SD 57501
- Email – mark.malone@state.sd.us
- Here - Now



Comments  
encouraged!

## ➤ **Website (project information)**

- <https://dot.sd.gov/projects-studies/projects/public-meetings>





# Meeting Opinions

Please fill out the survey at the back of the project information packet

OR online at this address:

<http://www.surveymonkey.com/r/SDDOT-Public-Meeting-Survey>

OR follow this link:



Thank you!

